

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

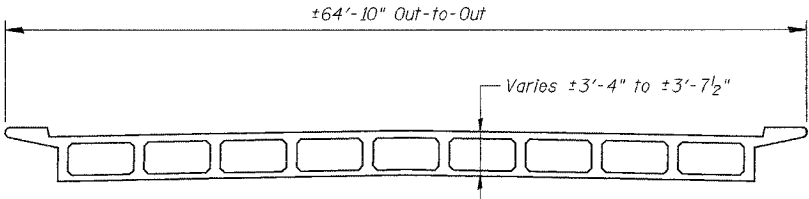
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 305	*	Cook	21	4

Contract No. 62852 *1313.1F

37 SHEETS

GENERAL NOTES:

- Fasteners shall be high strength bolts. Bolts $\frac{7}{8}$ " ϕ , open holes $\frac{15}{16}$ " ϕ , unless otherwise noted.
- Calculated weight of Structural Steel (AASHTO M 270, Grade 50) = 694,220 lbs.
Calculated weight of Structural Steel (AASHTO M 270, Grade 36) = 55,670 lbs.
- Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
- Anchor bolts shall be set before bolting diaphragms over supports.
- The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M 270, Grade 50.
- The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges, webs, and all splice plate material, except fill plates.
- Reinforcement bars shall conform to the requirements of AASHTO M 31, M 42, or M53, Grade 60.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $\frac{1}{8}$ " adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. For the Type I Elastomeric Bearings, two $\frac{1}{8}$ " adjusting shims shall be provided for each bearing and placed as detailed.
- Bridge Seat Sealer shall be applied to the seat area of West and East Abutments.
- When the deck pour is stopped for the day at one or more of the transverse Bonded Construction Joints in the deck Pouring Sequence as shown, the next pour shall not be made until both of the following requirements are met:
 - At least 72 hours shall have elapsed from the end of the previous pour.
 - The concrete strength shall have attained a minimum modulus of rupture of 650 psi or a minimum compressive strength of 3500 psi.
- The organic zinc rich primer/epoxy/urethane paint system shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final coat for the exterior and the bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4. See Special Provision for Cleaning and Painting New Metal Structures.
- Existing piers shall be removed to at least 2 feet below the Existing Ground Line.



CROSS SECTION - EXISTING STRUCTURE

- * Notes:
- The Existing Superstructure is a 9-cell monolithic continuous reinforced concrete box girder
 - The Contractor will be required to submit a complete and detailed removal plan sealed by a licensed Structural Engineer in the State of Illinois to the Engineer for review and approval prior to the start of work. Elmhurst Road will be required to remain open to Traffic during Removal and Reconstruction.
 - Electrical conduits and appurtenances cast within the existing superstructure shall be disconnected at their source prior to the start of work and shall be removed with the superstructure. Cost included with "Removal of Existing Structures".

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TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
* Porous Granular Embankment	Cu Yd			
* Removal of Existing Structures	Each			
* Structure Excavation	Cu Yd			
* Neoprene Expansion Joint 4"	Foot			
* Concrete Structures	Cu Yd			
* Concrete Superstructure	Cu Yd			
* Bridge Deck Grooving	Sq Yd			
* Protective Coat	Sq Yd			
Furnishing Elastomeric Bearing Assembly, Type I	Each	20		20
* Erecting Elastomeric Bearing Assembly, Type I	Each			
Furnishing Elastomeric Bearing Assembly, Type II	Each	10		10
* Erecting Elastomeric Bearing Assembly, Type II	Each			
Furnishing Structural Steel	L Sum	1		1
* Erecting Structural Steel	L Sum			
* Stud Shear Connectors	Each			
* Reinforcement Bars, Epoxy Coated	Pound			
* Name Plates	Each			
* Bridge Seat Sealer	Sq Ft			
* Geocomposite Wall Drain	Sq Yd			
* Pipe Underdrains for Structures 4"	Foot			
* Pipe Drains 4"	Foot			
* Pipe Drains 12"	Foot			
* Drainage Scuppers, DS-11	Each			
* Bridge Joint System (Expansion), 1- $\frac{5}{8}$ "	Foot			
* Bridge Drainage System	L Sum			
* Bar Splicers	Each			
Storage of Structural Steel	**	562		

** For Storage of Structural Steel one unit shall be equal to 5 tons.
The quantity was calculated based on the assumption that 25% of the steel weight has to be stored for 30 calendar days.

STATION 363+77.17
BUILT 200_ BY
STATE OF ILLINOIS
F.A.P. Rt. 305 Sec. xxxxx
F.A. PROJ _____
LOADING HS20
STR. NO. 016-2812

* **NAME PLATE**
(See Std. 515001)

GENERAL NOTES & BILL OF MATERIAL
PALATINE ROAD OVER
IL. RT. 83 (ELMHURST ROAD)
F.A.P. RTE. 305 SECT. 1313.1F
COOK COUNTY
STATION 363+77.17
STRUCTURE NO. 016-2812

***NOT INCLUDED IN CONTRACT**

DESIGNED	MJW
CHECKED	GAT
DRAWN	MJW
CHECKED	GAT